

This Service Letter reidentified a Service Bulletin M 20-110 per Service Instruction M20-15.

SUBJECT: Rerouting of Oil Lines to the Oil Cooler

MODELS AFFECTED: M20C, Serials 1852, 1940-2475
M20D, Serials 1, 101-170

TIME OF COMPLIANCE: Recommended as soon as practical and not later than next 100 hours. If not complied with immediately, inspect oil cooler flanges each 25 hours until compliance with this service letter.

INTRODUCTION

The oil lines must be rerouted in order to reduce the vibration upon the oil cooler flanges.

INSTRUCTIONS

1. Remove the top and side cowling.
2. Remove the left top baffle exposing the top side of the cylinder.
3. Remove both oil lines from the oil cooler.
4. Remove both oil lines from the engine.
5. Remove all clamps and hardware from the oil lines (and push the grommets in the front baffle upward through the baffle; push the grommets in the rear baffle forward through the baffle.)
6. Pull the oil lines forward and out of the baffles through the front cowling air intake.
7. Remove the oil cooler from the aircraft.
8. Remove both 45° fittings from the oil cooler.
9. Install the two 90° fittings in the oil cooler as per Figure 1.
10. Remove the air deflector from the oil cooler.
11. Install and route both oil lines per Figures 1, 2, and 3.
12. Slide the oil cooler into position with the fittings toward the center line of the engine.
13. Secure the oil lines to the fittings with the long line going to the top fitting while the cooler is loose.
14. Secure the oil cooler with the top mounting holes in each flange.
15. Drill .193/.200 dia. hole (2) in the oil cooler flanges to match the hole in the mounting brackets and the support plates.

16. Install the two remaining bolts.
17. Re-install the air deflector with the two long bushings to the outboard side.
18. Clamp the lines as per Figures 2 and 3.
19. Patch the holes in the cowling baffles with .032 2024-T3 clad aluminum patches.
20. Re-install the top left baffle.
21. Install the cowlings.

COMPLIANCE

After this service letter has been complied with, please return the enclosed compliance card to Mooney Aircraft for our records.

S.L. KIT 20-110

This kit is available from Mooney Aircraft, Inc., Spare Parts Department, Kerrville, Texas, at no cost.

PARTS LIST

Part No.	No. Required
AN3-5A Bolt	3
AN3-12A Bolt	1
AN3-16A Bolt	1
AN960-10 Washer	8
AN970-3 Washer	5
AN365-1032 Nut	5
MS21919DG-12 Clamp	7
AN822-8D 90° Elbow	2
914024-3	1
914024-5	1
8" length of 1 1/4 ID clear vinyl tubing	1

(This Service Bulletin Applies to AA Models)

